

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method for controlling transmission of data bits in a bit transfer session for transmitting data information from an application server to a client, said bit transfer session involving bit transfer over a wireless communications link by means of a transport protocol with a flow control mechanism, the method comprising the steps of:

a network entity receiving, continuously throughout said bit transfer session, information, over another connection separate from the bit transfer session, from a radio resource managing unit about the bandwidth on the entire wireless link that the bit transfer session currently is allowed to use, where the network entity is separate from the radio resource managing unit and comprises at least one of the application server and the client, wherein

the radio resource managing unit determines the bandwidth said bit transfer session is allowed to use over the wireless link; and

said network entity updating at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so as to control the transmission rate of the session in accordance with said received information.

2. (Previously Presented) The method for controlling transmission of data bits according to claim 1, further comprising the step of the network entity

receiving said information from the radio resource managing unit each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

3. (Previously Presented) The method for controlling transmission of data bits according to claim 1, further comprising the network entity receiving said information from the radio resource managing unit at predetermined intervals.
4. (Previously Presented) The method for controlling transmission of data bits according to claim 1, said network entity being the application server.
5. (Previously Presented) The method for controlling transmission of data bits according to claim 1, said bit transfer session being set up between the application server and the client via a proxy and by said network entity being the proxy.
6. (Previously Presented) The method for controlling transmission of data bits according to claim 5, said proxy sending acknowledgements of packets received from the application server during said bit transfer session and by said acknowledgements being dependent on said received information from the radio resource managing unit.
7. (Previously Presented) The method for controlling transmission of data bits according to claim 1, said network entity receiving said information from the radio resource managing unit via the client.
8. (Previously Presented) The method for controlling transmission of data bits according to claim 1 wherein said transport protocol being TCP.
9. (Previously Presented) The method for controlling transmission of data bits according to claim 8, said at least one parameter being the TCP window size and/or the TCP segment size.
10. (Previously Presented) The method for controlling transmission of data bits according to claim 1, further comprising the step of transforming the data to be transmitted during the bit transfer session in response to said received information from the radio resource managing unit.

11. (Previously Presented) The method for controlling transmission of data bits according to claim 1 further comprising updating said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

12. (Previously Presented) The method for controlling transmission of data bits according to claim 1, the radio resource managing unit being a radio network controller.

13. (Previously Presented) The method for controlling transmission of data bits according to claim 1, the radio resource managing unit being a base station controller.

14. (Canceled)

15. (Currently Amended) An apparatus, included in a network entity, for controlling transmission of data bits in a bit transfer session for transmitting data information from an application server to a client, said bit transfer session involving bit transfer over a wireless communications link by means of a transport protocol with a flow control mechanism, the apparatus comprising:

reception means for receiving continuously throughout said bit transfer session, information, over another connection separate from the bit transfer session, from a radio resource managing unit about the bandwidth on the entire wireless link that the bit transfer session currently is allowed to use, where the reception means is separate from the radio resource managing unit and comprises at least one of the application server and the client, and wherein

the radio resource managing unit determines the bandwidth said bit transfer session is allowed to use over the wireless link; and

parameter setting means for updating at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so as to control the transmission rate of the session in accordance with said received information.

16. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said reception means is arranged to receive said information from the radio resource managing unit each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

17. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said reception means is arranged to receive said information from the radio resource managing unit at predetermined intervals.

18. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said reception means and said parameter setting means are included in the application server.

19. (Previously Presented) The apparatus for controlling transmission of data bits according claim 15, wherein said bit transfer session is set up between the application server and the client via a proxy and in that said reception means and said parameter setting means are included in the proxy.

20. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 19, wherein said proxy is arranged to send acknowledgements of packets received from the application server during said bit transfer session, which acknowledgements are dependent on said information from the radio resource managing unit.

21. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said reception means are arranged to receive said information from the radio resource managing unit via the client.

22. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said transport protocol is TCP.

23. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 22, wherein said at least one parameter is TCP window size and/or TCP segment size.

24. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein the apparatus further includes means for transforming the data to be transmitted during the bit transfer session in response to said information from the radio resource managing unit.

25. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein said parameter setting means is arranged to update said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

26. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein the radio resource managing unit is a radio network controller.

27. (Previously Presented) The apparatus for controlling transmission of data bits according to claim 15, wherein the radio resource managing unit is a base station controller.

28. (Currently Amended) A system for controlling transmission of data bits in a bit transfer session involving bit transfer over a wireless communications link by means of a transport protocol with a flow control mechanism the system comprising:  
an apparatus further comprising:

reception means for receiving continuously throughout said bit transfer session, information, over another connection separate from the bit transfer session, from a radio resource managing unit about the bandwidth on the entire wireless link that the bit transfer session currently is allowed to use, where the reception means is separate from the radio resource managing unit and comprises at least one of an application server and a client, and wherein

the radio resource managing unit determines the bandwidth said bit transfer session is allowed to use over the wireless link; and

parameter setting means for updating at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so as to control the transmission rate of the session in accordance with said received information;

and

a radio resource managing unit arranged to send information continuously, throughout said session, about the bandwidth on the wireless link that the bit transfer session currently is allowed to use to the reception means of said apparatus.

29. (Previously Presented) The system for controlling transmission of data bits according to claim 27, wherein said system further includes a storing unit, in that the radio resource managing unit is arranged to send said information to said apparatus via said storing unit and in that said storing unit is arranged to relay said information from said radio resource managing unit to said apparatus.

30. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein said reception means is arranged to receive said information from the radio resource managing unit each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

31. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein said reception means is arranged to receive said information from the radio resource managing unit at predetermined intervals.

32. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein said reception means and said parameter setting means are included in the application server.

33. (Previously Presented) The system for controlling transmission of data bits according claim 28, wherein said bit transfer session is set up between the application server and the client via a proxy and in that said reception means and said parameter setting means are included in the proxy.

34. (Previously Presented) The system for controlling transmission of data bits according to claim 33, wherein said proxy is arranged to send acknowledgements of packets received from the application server during said bit transfer session, which acknowledgements are dependent on said information from the radio resource managing unit.

35. (Previously Presented) The system for controlling transmission of data bits according to claim 28, said reception means are arranged to receive said information from the radio resource managing unit via the client.

36. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein said transport protocol is TCP.

37. (Previously Presented) The system for controlling transmission of data bits according to claim 36, wherein said at least one parameter is TCP window size and/or TCP segment size.

38. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein the apparatus further includes means for transforming the data to be transmitted during the bit transfer session in response to said information from the radio resource managing unit.

39. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein said parameter setting means is arranged to update said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

40. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein the radio resource managing unit is a radio network controller.

41. (Previously Presented) The system for controlling transmission of data bits according to claim 28, wherein the radio resource managing unit is a base station controller.

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